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PHOTOGRAPHIC INTERPRETATION REPORT



SA-2 SAM SITES
WITHOUT
SITE SUPPORT FACILITIES
USSR

25X1

OCTOBER 1965

COPY 107

20 PAGES

25X1

GROUP 1 EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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TOP SECRET RUFF

SA-2 SAM SITES WITHOUT SITE SUPPORT FACILITIES USSR

OCTOBER 1965

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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This report has been prepared in response to CIA requirement C-RR5-82,950, which requests a thorough study of SA-2 SAM sites in the USSR for the presence or absence of on-site support facilities. Site support facilities normally consist of from 5 to 9 buildings and are probably used for administration and troop housing; however, some sites are adjacent to barracks areas and probably use those facilities for administrative functions and billeting.

For the purpose of this report, a site which had no support buildings within 1 nautical mile of the launch area was considered to be without site support facilities. Table 1 lists these installations and gives for each site its geographic coordinates, negation date (Neg), date first observed (FO), and BE number. Cov-

erage by KEYHOLE photography in 1965 is listed, citing the general activity level at each site by use of the standard terms Occupied (Occ), Unoccupied (Unoc), and Undetermined (Undet). For all cases in which occupancy could not be determined, limiting factors are noted.

This study reveals that, of the 1,033 SA-2 sites in the USSR listed by NPIC as of [redacted] approximately 15 percent (155) have no site support facilities. Of these, more than 65 percent (106) have been first observed since [redacted]. Furthermore, these 106 sites represent more than 45 percent of the 225 SAM sites in the USSR which have been added to the NPIC listing since January 1964. Table 1 follows.

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Table 1. Coverage of Base SAM Sites against Site-Specific Activities

SAM SITE							
1. Kandalaksha A30-2 67-07-30N 031-49-40E Neg: 1009-1, Aug 64 FO: 1017-2, Mar 65		Unoc				Unoc	
2. Kandalaksha B26-2 67-07-30N 031-49-40E Neg: 1009-1, Aug 64 FO: 1017-2, Mar 65		Prob Unoc				Under SD	
3. Kandalaksha A26-2 67-08-40N 032-11-00E		Unoc				Unoc	
4. Iokanga A26-2 67-09-30N 039-32-00E		Undet. S	Undet. S		2 Occ. 4 Unoc		
5. Lodeynoye-Pole A25-2 60-11-00N 033-21-00E		Undet. S				Undet. SC	Undet. PIQ
6. Volkhov A01-2 60-05-10N 032-20-35E		Unoc	Undet. S, PIQ	Undet. S, PIQ	Prob Unoc	Unoc	Undet. PIQ
7. Podporozhye A30-2 60-56-20N 034-01-10E		Undet. S				Undet. H	Undet. PIQ
8. Volkhov Probable C01-2 60-19-00N 032-54-20E		Undet. H			Unoc	Undet. PIQ	
9. Bratsk B31A-2 56-12-50N 101-30-45E Cannot be negated	Unoc					Unoc	
10. Magadan B04-2 58-42-45N 150-59-12E					Not covered since 1 January 1965		

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11. Leningrad C82A-2
60-14-15N 029-40-00E
Cannot be negated
[redacted]
12. Leningrad C02A-2
60-21-35N 030-33-00E
[redacted]
13. Leningrad D36-2
60-27-15N 030-13-40E
[redacted]
14. Leningrad Probable C04A-2
60-18-00N 030-31-40E
[redacted]
15. Haapsalu Probable B36-2
59-12-35N 023-31-20E
[redacted]
16. Leningrad Probable SA-2
59-32-45N 030-31-15E
[redacted]
17. Leningrad D24-2
59-37-40N 029-30-30E
[redacted]
18. Leningrad C11A-2
59-47-05N 031-07-20E
[redacted]
19. Novogorod B23-2
58-23-05N 030-39-20E
[redacted]
20. Novogorod B04-2
58-41-30N 031-26-40E
[redacted]



Unoc	Unoc	Unoc	Unoc	5 Unoc 1 Undet, CC	Poss Unoc	Undet, H
Unoc	Unoc	Undet, SS			Undet, SS	Undet, PIQ
Undet, S	Unoc	Unoc				PIQ
	Unoc	Unoc				
	Unoc		Unoc			Unoc
					Undet, H, CS	Unoc Prob Unoc
Unoc	Unoc	Unoc				Undet, GC
	Undet, S	Unoc				Unoc Poss Unoc
Undet, S					Undet, H	Unoc Unoc
Unoc	Undet, S, PIQ					Unoc

*Key to abbreviations

CC - Cloud covered
CF - Camouflaged
CS - Cloud shadow
GC - Ground cover
GS - Ground shadow
H - Haze

O - Obliquity
PIQ - Poor image quality
S - Snow

SC - Scattered clouds
SD - Semidarkness
SS - Small scale

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SAM SITE							
21. Novogorod B12-2	55-24-40N 035-14-30E					Unoc	
22. Novogorod B31-2	58-38-00N 030-58-20E				Unoc, SC, CS	Unoc	
23. Ostrov A31-2	57-23-10N 025-15-10E	Unoc	Unoc, S			Unoc, SS	Unoc
24. Kuznetskaya B00-1	58-33-25N 022-35-30E	Unoc		Unoc		Unoc, SS	
25. Dno B30-2	57-55-30N 029-36-50E	Unoc, H, S, O	Unoc, S, PIQ	Unoc		Unoc	Unoc
26. Dno B02-2	58-00-40N 030-00-00E	Unoc, S	Unoc, S, PIQ	Unoc		Unoc	Prob, Unoc
27. Dno B12-2	57-14-00N 030-17-05E					Unoc	Prob, Unoc
28. Tallinn D08-2	59-31-30N 029-15-30E	Unoc					Unoc
29. Torva MRBM Cplx A32-2	58-02-10N 025-57-10E	Unoc				Unoc, SS	Unoc
30. Volkhov B28-2	59-56-45N 031-13-50E	Unoc, S	Unoc, S	Unoc, PIQ		Unoc	Unoc, PIQ

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A screenshot of a web browser window displaying a completely blank white page. The browser's address bar at the top shows a URL starting with "http://". The rest of the browser interface, including tabs and toolbars, is partially visible at the top edge of the frame.



SC - Scattered clouds
SD - Semidarkness
SS - Small scale

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Table 1. (Continued)

SAM SITE					
41. Sverdlovsk B05A-2 56-59-15N 080-51-30E [redacted]		Undet, S	Undet, S		Unoc
42. Belovo A11-2 54-25-00N 080-34-00E [redacted]	Undet, S, H			Unoc	
43. Bysk B25-2 52-27-30N 084-53-00E [redacted]					Unoc
44. Omsk A13-2 54-54-10N 078-30-35E [redacted]		Unoc			
45. Chelyabinsk C36-2 53-30-40N 061-20-00E Neg: Cannot be negated [redacted]				Undet, S, CS, H, PIQ	
46. Kuybyshev D29-2 53-22-15N 049-15-10E Neg: Cannot be negated [redacted]	Undet, S		Unoc	Undet, S	
47. Kuybyshev C34-2 53-37-20N 049-48-35E Neg: Cannot be negated [redacted]	Undet, S		Unoc		
48. Kuybyshev D40-2 53-38-00N 049-20-00E Neg: Cannot be negated [redacted]	Undet, S		Unoc		
49. Kuybyshev C27-2 53-09-45N 049-29-35E Neg: Cannot be negated [redacted]			Unoc		Undet, H
50. Ryazan B14-2 54-27-00N 039-59-50E [redacted]		Unoc			Unoc

TOP SECRET RUFF

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51. Ryazan B32-2 54-48-00N 039-22-50E [redacted]	[redacted]	Unoc	Unoc		Unoc
52. Ryazan B03-2 54-48-10N 039-53-20E [redacted]			Unoc		Unoc
53. Ryazan B23-2 54-28-20N 039-23-00E [redacted]			Unoc		Unoc
54. Sarova A35-2 54-58-00N 043-18-43E Neg: Cannot be negated [redacted]			Unoc	Undet, H, CS	
55. Orel B14-2 52-47-20N 036-19-00E [redacted]			Undet, S, H, PIQ	Unoc	Unoc
56. Orel B33-2 53-10-23N 033-50-32E [redacted]			Unoc	Undet, SC, H	Unoc
57. Orel B23-2 52-47-50N 033-48-01E [redacted]			Unoc		Unoc
58. Vyazma B36-2 55-28-06N 034-15-23E [redacted]			Unoc	Unoc	Unoc
59. Vyazma B28-2 55-12-55N 033-52-00E [redacted]			Unoc	1 Occ, 4 Poss occ, 1 Unoc	Unoc
60. Vyazma B05-2 55-23-40N 034-38-30E [redacted]			Unoc		Unoc

*Key to abbreviations

CC - Cloud covered	GC - Ground cover	O - Obliquity	SC - Scattered clouds
CF - Camouflaged	GS - Ground shadow	PIQ - Poor image quality	SD - Semidarkness
CS - Cloud shadow	H - Haze	S - Snow	SS - Small scale

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SAM SITE								
61. Vyazma B16-2 55-00-40N 034-26-07E [redacted]		Unoc		Unoc		Unoc		
62. Moscow C30-2 55-51-10N 037-03-27E [redacted]		Unoc	Unoc	Prob Unoc		Undet, PIQ	Undet, SC, CS	Unoc
63. Moscow C17-2 55-22-30N 037-16-30E [redacted]		Unoc	Unoc				Unoc	
64. Moscow B21-2 55-27-30N 037-23-00E [redacted]		Unoc	Unoc				Unoc	
65. Moscow C08-2 55-48-50N 038-13-00E [redacted]		Unoc	Undet, S, H				Undet, SS	Undet, CF
66. Moscow C13-2 55-32-22N 038-06-10E [redacted]		Unoc	Prob Unoc				Undet, SC, H	Unoc
67. Moscow B11-2 55-42-00N 038-00-00E Note: Cannot be located		Undet, S	Prob Unoc					
68. Vyazma B20-2 52-15-00N 024-50-10E [redacted]					Unoc H			
69. Brest A33-2 52-13-05N 023-32-20E [redacted]								Unoc
70. Grodno C35-2 54-07-40N 023-40-50E [redacted]					Undet, S, PIQ	Undet, SC, CS		Unoc

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71. Minsk B10-2
53-52-40N 027-55-10E
Neg: Cannot be negated
[redacted]
72. Minsk B32-2
54-05-00N 027-15-30E
[redacted]
73. Siauliai A27-2
55-55-22N 028-06-50E
[redacted]
74. Vilnius A34-2
54-48-50N 025-12-30E
[redacted]
75. Kalinkovichi B29-2
52-11-45N 028-57-40E
Neg: Cannot be negated
[redacted]
76. Kalinkovichi A17-2
52-08-30N 029-19-50E
[redacted]
77. Drissa Probable A13-2
55-43-10N 028-06-50E
[redacted]
78. Petropavlovsk A20A-2
52-52-40N 158-37-00E
Neg: Cannot be negated
[redacted]
79. Petropavlovsk B21-2
52-45-28N 158-29-00E
Neg: Cannot be negated
[redacted]
80. Okha A08-2
53-36-00N 143-02-00E
Neg: Cannot be negated
[redacted]



Not covered since [redacted]

Unoc

Undet, H Unoc

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Undet, SC, PIQ Unoc

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*Key to abbreviations

CC - Cloud covered
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GC - Ground cover
GS - Ground shadow
H - Haze

O - Obliquity
PIQ - Poor image quality
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SAM SITE		Table 1. Continues									
81.	Kvakhta A19-2 50-20-10N 140-20-30E [Redacted]	Undet, S	Unoc		Unoc				Unoc		Undet, H, SS
82.	Khadabulak A26-2 50-42-25N 115-58-10E Neg: Cannot be negated [Redacted]				Unoc	Unoc	Unoc				Unoc
83.	Khadabulak A27-2 50-43-30N 116-04-20E [Redacted]	Unoc			Unoc	Unoc	Unoc				Unoc
84.	Birobidzhan A15-2 48-44-00N 132-00-00E Neg: Cannot be negated [Redacted]			Undet, S				Unoc	Unoc		Undet, SS
85.	Khabarovsk B18-2 48-12-10N 135-11-10E [Redacted]	Undet, S			Prob Unoc				Prob Unoc		
86.	Komsomolsk B41-2 50-23-20N 136-54-30E Neg: Cannot be negated [Redacted]	Undet, S	Unoc	Unoc	Undet, S				Unoc		Unoc
87.	Smirnykh A31-2 49-44-30N 142-48-10E [Redacted]		Unoc	Undet, S				Unoc			
88.	Lavay B69-2 50-05-05N 023-58-50E Neg: Cannot be negated [Redacted]							Unoc			
89.	Nadyornaya MRBM Complex B31-2 48-46-50N 024-27-10E [Redacted]						Unoc				Unoc
90.	Mukachevo A16-2 48-19-00N 022-48-15E [Redacted]			Undet, S							Undet, GS

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91. Chernovtsy C38-2
48-49-00N 025-54-30E
92. Chortkov B36-2
49-12-35N 025-44-58E
Neg.: Cannot be negated
93. Kirovograd B30-2
48-18-10N 032-12-00E
94. Kirovograd B30-2
48-37-10N 031-37-00E
95. Lutsk MRBM Cplx A08-2
50-49-50N 025-13-40E
Neg.: Cannot be negated
96. Lutsk MRBM Cplx B30-2
50-37-90N 025-00-40E
97. Priluki B33-2
50-49-00N 032-06-00E
98. Rovno B07-2
50-44-45N 026-34-45E
99. Rovno B25-2
50-32-25N 025-53-15E
100. Rovno B11-2
50-32-35N 026-35-20E

CC - Cloud covered
CF - Camouflaged
CS - Cloud shadow

Unoc

SC - Scattered clouds
SD - Semidarkness
SS - Small scale

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111. Morozovsk C25-2 46-08-50N 041-15-00E [redacted]	[redacted]					Undet, PIQ			
112. Zaporozhye B34-2 48-08-03N 034-58-29E [redacted]	Unoc						Unoc	Unoc	
113. Volgograd C05-2 49-01-00N 044-59-00E Neg: Cannot be negated [redacted]	Undet, S, 0		4 Occ, 2 Unoc				Unoc	Undet, 0	
114. Volgograd C17-2 46-17-00N 044-38-00E Neg: Cannot be negated [redacted]			Unoc				Unoc	Unoc	
115. Orenburg A25-2 51-45-00N 034-26-25E [redacted]	3 Occ 3 Unoc				Occ		Unoc	Unoc	
116. Ayaguz B03-2 48-10-00N 080-30-00E Neg: Cannot be negated [redacted]	Unoc		Undet, S, H	Prob occ					
117. Lepsy A05-2 46-14-53N 075-57-10E Neg: Cannot be negated [redacted]			Occ				2 Pos Occ 4 Unoc	Occ	
118. Astrakhan B23-2 46-11-10N 047-47-45E [redacted]					Undet, SS			Unoc	
119. Armavir A29-2 45-00-40N 041-00-30E [redacted]			Unoc		Unoc	Unoc		Undet, SS	
120. Feodosiya B08-2 45-03-40N 035-50-10E [redacted]	Unoc		Undet, H						

*Key to abbreviations

CC - Cloud cover
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CS - Cloud shadow

GC - Ground cover
GS - Ground shadow
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PIQ - Poor image quality
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Table 1. (Continued)

SAM SITE					
121. Krasnodar B15-2 44-01-10N 040-45-10E [REDACTED]	Prob Unoc	Undet, SS		Unoc	Unoc
122. Maykop MRBM Cplx C30-2 44-37-10N 039-29-45E [REDACTED]	Unoc	Unoc		Unoc	
123. Rostov B23-2 45-02-50N 039-26-10E [REDACTED]	Unoc	Unoc		Unoc	Unoc
124. Krasnodar B36-2 45-40-00N 039-26-00E [REDACTED]		Unoc		Unoc	Unoc
125. Kuschchevskaya B27-2 46-32-40N 039-22-30E [REDACTED]	5 Occy, 1 Unoc	Unoc		Prob Unoc	Unoc
126. Kuschchevskaya C21-2 46-11-20N 039-25-10E [REDACTED]	Prob Unoc	Unoc		Prob Unoc	Unoc
127. Armavir D23-2 44-36-16N 040-38-21E [REDACTED]		Unoc			
128. Armavir C18-2 44-32-50N 041-12-25E [REDACTED]		Unoc SS			
129. Kropotkin B24-2 45-18-00N 040-17-50E [REDACTED]	Unoc	Unoc		Undet, SS	
130. Kropotkin B32-2 45-38-11N 040-14-22E [REDACTED]	Unoc	Unoc		Undet, SS	Unoc

TOP SECRET RUFG

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131. Kakhovka B06-2 46-57-40N 033-49-15E [redacted]	[redacted]			Undet, SC, CS	Unoc
132. Kherson D24-2 46-20-10N 031-52-30E [redacted]		Unoc	Undet, PIQ	Unoc	Unoc
133. Krivoy Rog B16-2 47-37-00N 033-33-00E [redacted]				Unoc	Unoc
134. Odessa D05-2 46-39-20N 031-34-10E [redacted]			Unoc		Unoc
135. Odessa D06-2 46-43-40N 031-22-10E [redacted]		Unoc	Unoc		Unoc
136. Tiraspol A13-2 46-46-50N 029-45-03E [redacted]		Unoc			
137. Beltsy B12-2 47-39-00N 026-15-20E [redacted]		Unoc		Undet, H, CS	
138. Yuzhno-Sakhalinsk B36-2 47-14-35N 142-41-05E [redacted]			Unoc, u/c	Unoc, u/c	
139. Barano-Orenbergskoye MRBM Cplx B12-2 44-13-35N 131-43-15E [redacted]		Undet, S		Unoc	
140. Chernyshevka A14-2 44-11-40N 133-09-55E [redacted]	Undet, S, H	Undet, S, PIQ, SS		Unoc	

*Key to abbreviations

CC - Cloud covered	GC - Ground cover	O - Obliquity	SC - Scattered clouds
CF - Camouflaged	GS - Ground shadow	PIQ - Poor image quality	SD - Semidarkness
CS - Cloud shadow	H - Haze	S - Snow	SS - Small scale

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Table 1. (Continued)

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151. Leninskoye A07-2
41-46-20N 089-25-00E



Undet,
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PIQ

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H,
PIQ

152. Otar B09-2
43-33-20N 073-38-15E



Unoc

153. Kizyl-Arvat B30-2
39-06-50N 055-35-35E



Unoc

Unoc

154. Kovel B13-2
51-06-45N 024-59-00E



Prob

Unoc

155. Korenovsk C27-2
45-26-40N 038-36-30E



Unoc

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**Key to abbreviations*

CC - Cloud covered
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REFERENCES

REQUIREMENT

CIA. C-RR5-62,950

NPIC PROJECT

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